abcam

ab325145

Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR30470-91
Purification technique	Affinity purification Protein A
Concentration	1.043 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	-

Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

WB

Tested

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information Pglyrp1

Function	Innate immunity protein that plays several important functions in antimicrobial and antitumor defense systems. Acts as a pattern receptor that binds to murein peptidoglycans (PGN) of Gram-positive bacteria and thus provides bactericidal activity (PubMed:12649138, PubMed:9660837, PubMed:9707603). Forms an equimolar complex with heat shock protein HSPA1A and induces programmed cell death through apoptosis and necroptosis in tumor cell lines by activating the TNFR1 receptor on the target cell membrane (PubMed:14585845). In addition, acts in complex with the Ca(2+)-binding protein S100A4 as a chemoattractant able to induce lymphocyte movement. Mechanistically, this complex acts as a ligand of the chemotactic receptors CCR5 and CXCR3 which are present on the cells of the

immune system. Also promotes the activation of lymphocytes that become able to kill virus-infected cells as well as tumor cells by modulating the spectrum of their target-cell specificity. Induction of cytotoxicity on monocyte surface requires interaction with TREM1 receptor (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab325145 is the carrier free version of ab325131

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

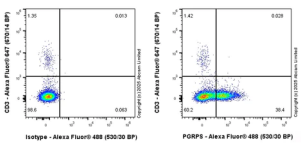
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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13 product images



Flow Cytometry (Intracellular) - Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free (ab325145)

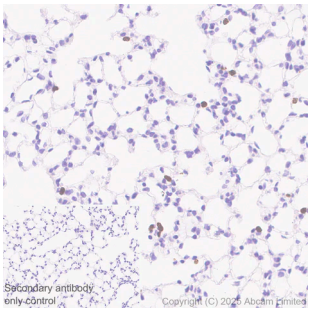
PGRPS Flow Cytometry (Intracellular) staining of Mouse bone marrow using rabbit Anti-PGRPS antibody

This data was developed using ab325131, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 2% paraformaldehyde fixed 0.1% Tween-20 permeabilized Mouse bone marrow cells labelling PGRPS with ab325131 at 1/5000 dilution (0.01ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Cells were stained with anti-CD3 conjugated to Alexa Fluor®647. Then fixed with 2% PFA for 10 min followed by intracellularly staining with rabbit IgG or our antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free (ab325145)

PGRPS Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse lung using rabbit Anti-PGRPS antibody

This data was developed using ab325131, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse lung tissue labeling PGRPS with ab325131 at 1/1000 (0.522 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on immune cells of mouse lung (PMID:9707603). The primary antibody was incubated for 30 mins at room temperature.

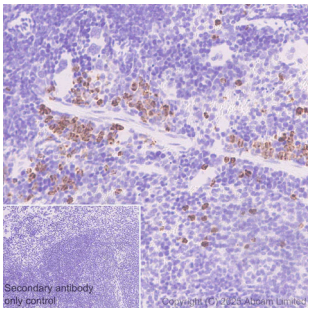
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free (ab325145)

PGRPS Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse spleen using rabbit Anti-PGRPS antibody

This data was developed using ab325131, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling PGRPS with ab325131 at 1/1000 (0.522 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on mouse spleen (PMID:9707603). The primary antibody was incubated for 30 mins at room temperature.

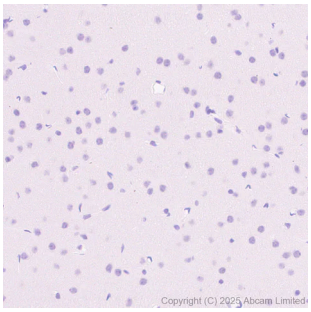
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Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free (ab325145)

PGRPS Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PGRPS antibody

This data was developed using ab325131, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling PGRPS with ab325131 at 1/1000 (0.522 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

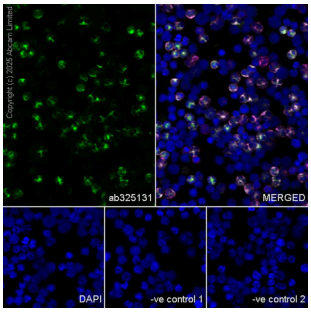
Low expression tissue: no staining on mouse cerebrum (PMID:9707603). The primary antibody was incubated for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunocytochemistry/ Immunofluorescence - Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free (ab325145)

PGRPS Immunocytochemistry/ Immunofluorescence staining of Mouse bone marrow using rabbit Anti-PGRPS antibody

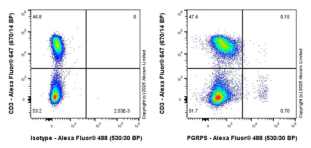
This data was developed using ab325131, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Mouse bone marrow cells labelling PGRPS with ab325131 at 1/1000 (0.522 µg/ml) dilution , followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Confocal image showing cytoplasmic staining in mouse CD11B+ bone marrow cells (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab8878 Anti-CD11b Rat monoclonal antibody was used to counterstain tubulin at 1/100 dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free (ab325145)

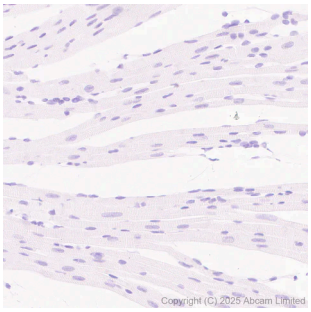
PGRPS Flow Cytometry (Intracellular) staining of Mouse blood using rabbit Anti-PGRPS antibody

This data was developed using ab325131, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 2% paraformaldehyde fixed 0.1% Tween-20 permeabilized Mouse blood cells labelling PGRPS with ab325131 at 1/5000 dilution (0.01ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Cells were stained with anti-CD3 conjugated to Alexa Fluor®647. Then fixed with 2% PFA for 10 min followed by intracellularly staining with rabbit IgG or our antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free (ab325145)

PGRPS Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PGRPS antibody

This data was developed using ab325131, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse cardiac muscle tissue labeling PGRPS with ab325131 at 1/1000 (0.522 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Low expression tissue: no staining on mouse cardiac muscle (PMID:9707603). The primary antibody was incubated for 30 mins at room temperature.

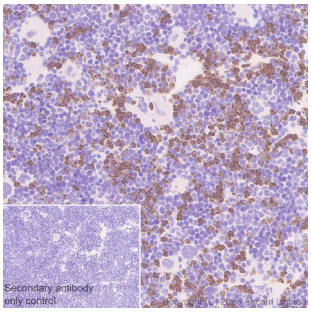
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free (ab325145)

PGRPS Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse bone marrow using rabbit Anti-PGRPS antibody

This data was developed using ab325131, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse bone marrow tissue labeling PGRPS with ab325131 at 1/1000 (0.522 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

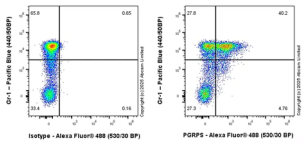
Positive staining on mouse bone marrow. The primary antibody was incubated for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Flow Cytometry (Intracellular) - Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free (ab325145)

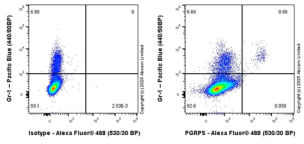
PGRPS Flow Cytometry (Intracellular) staining of Mouse bone marrow using rabbit Anti-PGRPS antibody

This data was developed using ab325131, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 2% paraformaldehyde fixed 0.1% Tween-20 permeabilized Mouse bone marrow cells labelling PGRPS with ab325131 at 1/5000 dilution (0.01ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Cells were stained with anti-Gr-1 conjugated to Pacific Blue. Then fixed with 2% PFA for 10 min followed by intracellularly staining with rabbit IgG or our antibody.



Flow Cytometry (Intracellular) - Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free (ab325145)

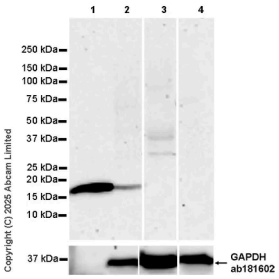
PGRPS Flow Cytometry (Intracellular) staining of Mouse blood using rabbit Anti-PGRPS antibody

This data was developed using ab325131, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 2% paraformaldehyde fixed 0.1% Tween-20 permeabilized Mouse blood cells labelling PGRPS with ab325131 at 1/5000 dilution (0.01ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Cells were stained with anti-Gr-1 conjugated to Pacific Blue. Then fixed with 2% PFA for 10 min followed by intracellularly staining with rabbit IgG or our antibody.



Western blot - Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free (ab325145)

PGRPS Western blot staining using rabbit Anti-PGRPS antibody

This data was developed using ab325131, the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Low expression: heart (PMID: 9707603 ; PMID: 11461926; PMID: 9707603), NIH/3T3

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 9707603 ; PMID: 11461926; PMID: 9707603).

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) (1:200000) (36KDa).

All lanes:
Western blot - Anti-PGRPS antibody [EPR30470-91] (ab325131) at 1/1000 dilution

Lane 1:
Mouse bone marrow tissue lysate at 48 µg

Lane 2:
Mouse spleen tissue lysate at 48 µg

Lane 3:
Mouse heart tissue lysate at 48 µg

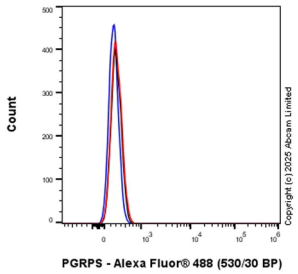
Lane 4:
NIH/3T3 (mouse embryonic fibroblast) whole cell lysate at 48 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 18 kDa, 36 kDa

Exposure time: 180s



Flow Cytometry (Intracellular) - Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free (ab325145)

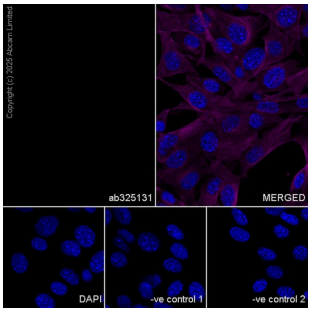
PGRPS Flow Cytometry (Intracellular) staining of NIH/3T3 (mouse embryonic fibroblast) using rabbit Anti-PGRPS antibody

This data was developed using ab325131, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labelling PGRPS with ab325131 at 1/5000 dilution (0.01ug) / Red compared with a Rabbit monoclonal IgG (ab172730) / Black isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Negative control: NIH/3T3



Immunocytochemistry/ Immunofluorescence - Anti-PGRPS antibody [EPR30470-91] – BSA and Azide free (ab325145)

PGRPS Immunocytochemistry/ Immunofluorescence staining of NIH/3T3 (mouse embryonic fibroblast) using rabbit Anti-PGRPS antibody

This data was developed using ab325131, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labelling PGRPS with ab325131 at 1/1000 (0.522 µg/ml) dilution , followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Negative control: confocal image showing no staining in NIH/3T3 cell line (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab7291 Anti-alpha Tubulin mouse monoclonal antibody was used to counterstain tubulin at 1/1000 dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.

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